



Docket No.: **645-167**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT OPERATIONS

re Application of:

**Naoyuki Goto**

Serial No.: 10/773,934

Filed: February 6, 2004

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)  
Group Art Unit: --  
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)  
Examiner: --  
)  
)

For: **ULTRA LOW EXPANSION TRANSPARENT GLASS-CERAMICS**

New York, NY 10036  
May 5, 2004

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Sir:

US 5,591,682	Discloses low expansion transparent glass-ceramic.
US 4,851,372	Discloses glass-ceramic with specific thermal expansion behavior.
US 6,387,509	Discloses glass-ceramic substrate for a magnetic information recording medium.
US 6,197,710	Discloses luminous glass ceramics.
US 5,336,643	Discloses low expansion transparent crystallized glass-ceramic.
US 5,972,816	Discloses glass-ceramic substrate for a magnetic information storage.
US 6,001,445	Discloses simulation disk for measuring flying height of magnetic head.
US 2003/0099062	Discloses holding member for information storage disk and information storage disk drive device.
US 4,851,372	Discloses glass-ceramic with specific thermal expansion behavior.

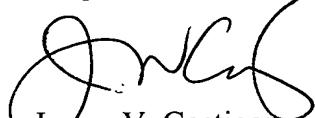
US 2002/0022564 Discloses low expansion transparent glass-ceramic, glass-ceramic substrate and optical waveguide element.

JP 11-292616 Discloses composite glass ceramic and its production.

JP 2003-192385 Discloses glass-ceramic and temperature-compensated member.

JP 2001-150452 Discloses mold for molding resin and method of manufacturing the same.

Respectfully submitted,



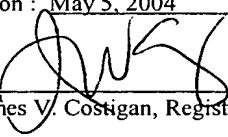
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James V. Costigan, Registration No. 25,669



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Substitute for form 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 1

### Complete if Known

Application Number	10/773,934
Filing Date	February 6, 2004
First Named Inventor	Naoyuki Goto
Art Unit	--
Examiner Name	--

Attorney Docket Number 645-167

### U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	AA	US- 5,591,682	1/7/1997	Goto	
	AB	US- 4,851,372	7/25/1989	Lindig, et al	
	AC	US- 6,387,509	5/14/2002	Goto, et al	
	AD	US- 6,197,710	3/6/2001	Ohara, et al	
	AE	US- 5,336,643	8/9/1994	Goto, et al	
	AF	US- 5,972,816	10/26/1999	Goto	
	AG	US- 6,001,445	12/14/1999	Itoh, et al	
	AH	US- 2003/0099062	5/29/2003	Kataoka, et al	
	AI	US- 4,851,372	7/25/1989	Lindig, et al	
	AJ	US- 2002-0022564	11/21/2002	Minamikawa, et al	
	AK	US-			
	AL	US-			
	AM	US-			
	AN	US-			
	AO	US-			
	AP	US-			
	AQ	US-			
	AR	US-			
	AS	US-			

### FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> "Number <sup>4</sup> "Kind Code <sup>5</sup> (if known)				
	AT	JP 11-292616	10/26/1999			
	AU	JP 2003-192385	7/9/2003			
	AV	JP 2001-150452	6/5/2001			
	AW					
	AX					
	AY					

Examiner Signature		Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

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